Office of Naval Research
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Distinguished Lecture Series

Visualizing Science and Technology

Presented by: Prof. Katy Börner

School of Informatics, Computing, and Engineering,
Indiana University, Bloomington, IN

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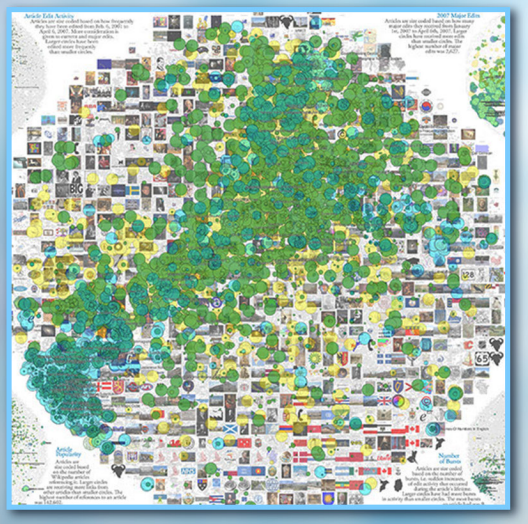
IN THE JUNKER CENTER



Office of Naval Research
875 N. Randolph St., Arlington, Virginia
Bobby Junker Executive Conference Center, 14th Floor

Visualizing Science and Technology

In the information age, the ability to read and make data visualizations is as important as the ability to read and write. This talk explains and exemplifies the power of data visualizations not only to help locate us in physical space but also to help us understand the extent and structure of our collective scientific knowledge, to identify bursts of activity, pathways of ideas and products, or emerging areas of research and innovation. It introduces a theoretical visualization framework meant to empower anyone to systematically render data into insights together with tools that support temporal, geospatial, topical, and network analyses and visualizations. Materials from the Information Visualization MOOC (http://ivmooc.cns.iu.edu) and science maps from the Places & Spaces: Mapping Science exhibit (http://scimaps.org) will be used to illustrate key concepts and to inspire participants to visualize their very own data.

ABOUT
Prof. Katy Börner

Katy Börner is the Victor H. Yngve Distinguished Professor of Engineering and Information Science in the School of Informatics, Computing, and Engineering, Adjunct Professor at the Department of Statistics in the College of Arts and Sciences, Core Faculty of Cognitive Science, Member of the Advanced Visualization Laboratory, Founding Director of the Cyberinfrastructure for Network Science Center at Indiana University, Bloomington, IN, Visiting Professor at the Royal Netherlands Academy of Arts and Sciences (KNAW) in The Netherlands, and Visiting Professor and Mercator Fellow, Department of Computer Science and Applied Cognitive Science, University of Duisburg-Essen, Germany. She is a curator of the international Places & Spaces: Mapping Science exhibit. She holds a MS in Electrical Engineering from the University of Technology in Leipzig, 1991 and a Ph.D. in Computer Science from the University of Kaiserslautern, 1997. She is a member of ACM and IEEE. In 2012, she became an American Association for the Advancement of Science (AAAS) Fellow.